NAK1-AZ69r

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Examiner:
Kiyokazu Yamanaka et al.	Group Art Unit:
Serial No.:	
Filed:	July 26, 2001
For: DATA CONVERSION APPARATUS FOR DATA COMMUNICATION SYSTEM	Irvine, California 92614

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Prior to an examination on the merits of the above-identified application, please enter the following amendments:

IN THE CLAIMS:

Please add the following newly-drafted Claims 28-34.

1 28.   A data conversion apparatus for use in a data communication system which achieves

2 pseudo interactive communications by using one-way communications from the data

3 transmitting apparatus to a plurality of data receiving apparatuses, the data conversion apparatus

4 comprising:

5   document storing means storing a plurality of documents each of which includes one or

6   more character strings at least one of which contains a piece of link destination

7   information specifying another document as a link destination;

8   display image element generating means for reading the character strings one at a time

9   from the document storing means and converting each read character string into a

10   display image element being a bit-mapped graphic;

11   display image generating means for generating a display image which is composed of

12   generated display image elements and is to be displayed on the plurality of data

13   receiving apparatuses as one screen; and

14   display link destination information converting means for converting each piece of link

15   destination information into a piece of display link destination information which

16   specifies, as a link destination, another display image which is a display image of

17   the other document generated by the display image generating means.

1   29.   A data conversion apparatus for use in a data communication system which achieves

2   pseudo interactive communications by using one-way communications from the data

3   transmitting apparatus to a plurality of data receiving apparatuses, the data conversion apparatus

4   comprising:

5   document storing means storing a plurality of documents each of which includes one or

6   more character strings at least one of which contains a piece of link destination

7   information specifying another document as a link destination;

8   display image element generating means for reading the character strings one at a time

9   from the document storing means and converting each read character into a display

10   image element being a bit-mapped graphic;

11   display image generating means for generating a display image which is composed of

12   generated display image elements and is to be displayed on the plurality of data

13   receiving apparatuses as one screen; and

14   identifier adding means for adding an identifier for cursor control to each generated

15   display image element in the display image in accordance with display position of

16   each display image element.

1   30.   The data conversion apparatus of Claim 29, wherein

2   the identifier is a number.

1   31.   A data conversion apparatus for use in a data communication system which achieves

2   pseudo interactive communications by using one-way communications from the data

3   transmitting apparatus to a plurality of data receiving apparatuses, the data conversion apparatus

4   comprising:

5   document storing means storing a plurality of documents each of which includes one or

6   more character strings at least one of which contains a piece of link destination

7   information specifying another document as a link destination;

8   display image element generating means for reading the character strings one at a time

9   from the document storing means and converting each read character string into a

10   display image element being a bit-mapped graphic;

11   display image generating means for generating a display image which is composed of

12   display image elements of a same category and is to be displayed on the plurality of

13   data receiving apparatuses as one screen; and

14   display link destination information converting means for converting each piece of link

15   destination information into a piece of display link destination information which

16   specifies, as a link destination, another display image which is a display image of

17   the other document generated by the display image generating means.

1   32.   The data conversion apparatus of Claim 31, wherein

2   the document is written in HTML, and

3   the display image generating means determines categories of the display image elements

4   from tags written in the document.

1   33.   The data conversion apparatus of Claim 32 further comprising:

2   supplementary design storing means storing supplementary designs with serial numbers;

3   and

4   supplementary design adding means for reading the supplementary designs from the

5   supplementary design storing means one by one in order, and adding each read

6   supplementary design to each piece of link destination information specifying the

7   other document as the link destination, on a one-to-one basis, wherein

8   the display link destination information converting means converts each piece of link

9   destination information into a piece of display link destination information

10   corresponding to a serial number assigned to a supplementary design,

11   the supplementary design storing means includes:

12   a maximum number storing unit for storing a maximum number of the supplementary

13   designs in the display image, wherein

14   the display image generating means further includes:

15   a maximum number judging unit for judging whether the number of the supplementary

16   designs to be arranged in the display image exceeds the maximum number; and

17   a display image dividing unit for, when the maximum number judging unit judges that

18   the number of the supplementary designs exceeds the maximum number, sending

19   an instruction to the display image generating means to divide the display image

20   into the plurality of display sub-images so that supplementary designs less than the

21   maximum number are added to each of the plurality of display sub-images divided

22   from the display image, wherein the display image generating unit generates the

23   plurality of display sub-images according to the instruction.

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1   34.   A data receiving apparatus for achieving a pseudo interactive communication by

2   receiving one-way communications from a data transmitting apparatus, the data receiving

3   apparatus comprising:

4   display means for displaying a display image which is composed of one or more display

5   image elements which are each a bit-mapped graphic generated from a character

6   string which is included in a document and contains a piece of link destination

7   information specifying another document as a link destination;

8   storage means for storing information showing positions of the one or more display

9   image elements displayed by the display means;

10   focus means for focusing on one of the one or more display image elements displayed by

11   the display means;

12   reception means for receiving an operation signal of a move button on a remote control;

13   and

14   focus control means for controlling the focus and allowing another display image element

15   to be focused on in accordance with the received operation signal by referring to

16   the position information stored in the storage means.

REMARKS

The newly-drafted claims are within the scope of the original application.

If the Examiner believes that a telephone interview will help further the prosecution of this case, he is respectfully requested to contact the undersigned attorney at the listed telephone number.

Very truly yours,

PRICE, GESS & UBELL

Bradley D. Blanche
Reg. No. 38,387
2100 S.E. Main St., Ste. 250
Irvine, CA 92614
949/261-8433